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... or at one of several **intermediate storage** facilities, for example, serving groups ... The use of a **removable medium** such as a CD-ROM further permits the ...

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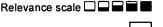
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GPGPU: general purpose computation on graphics hardware



David Luebke, Mark Harris, Jens Krüger, Tim Purcell, Naga Govindaraju, Ian Buck, Cliff Woolley, Aaron Lefohn

August 2004 Proceedings of the conference on SIGGRAPH 2004 course notes SIGGRAPH '04

Publisher: ACM Press

Full text available: pdf(63.03 MB)

Additional Information: full citation, abstract

The graphics processor (GPU) on today's commodity video cards has evolved into an extremely powerful and flexible processor. The latest graphics architectures provide tremendous memory bandwidth and computational horsepower, with fully programmable vertex and pixel processing units that support vector operations up to full IEEE floating point precision. High level languages have emerged for graphics hardware, making this computational power accessible. Architecturally, GPUs are highly parallel s ...

2 Flexible control of downloaded executable content



Trent Jaeger, Atul Prakash, Jochen Liedtke, Nayeem Islam

May 1999 ACM Transactions on Information and System Security (TISSEC), Volume 2 Issue 2

**Publisher: ACM Press** 

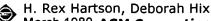
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We present a security architecture that enables system and application a ccess control requirements to be enforced on applications composed from downloaded executable content. Downloaded executable content consists of messages downloaded from remote hosts that contain executables that run, upon receipt, on the downloading principal's machine. Unless restricted, this content can perform malicious actions, including accessing its downloading principal's private data and sending messages on th ...

Keywords: access control models, authentication, autorization machanisms, collaborative systems, role-based access control

3 Human-computer interface development: concepts and systems for its management



March 1989 ACM Computing Surveys (CSUR), Volume 21 Issue 1

**Publisher: ACM Press** 

Full text available: pdf(7.97 MB)

Additional Information: full citation, abstract, references, citings, index terms, review

Human-computer interface management, from a computer science viewpoint, focuses on the process of developing quality human-computer interfaces, including their representation, design, implementation, execution, evaluation, and maintenance. This survey presents important concepts of interface management: dialogue independence, structural modeling, representation, interactive tools, rapid prototyping, development methodologies, and control structures. Dialogue independence is th ...

Higher-order distributed objects

Henry Cejtin, Suresh Jagannathan, Richard Kelsey

September 1995 ACM Transactions on Programming Languages and Systems (TOPLAS), Volume 17 Issue 5

Publisher: ACM Press

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We describe a distributed implementation of Scheme that permits efficient transmission of higher-order objects such as closures and continuations. The integration of distributed communication facilities within a higher-order programming language engenders a number of new abstractions and paradigms for distributed computing. Among these are user-specified load-balancing and migration policies for threads, incrementally linked distributed computations, and parameterized client-server applicat ...

Keywords: concurrency, continuations, higher-order languages, message-passing

5 Projectors: advanced graphics and vision techniques

Ramesh Raskar

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Publisher: ACM Press

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6 A testbed for characterizing dynamic response of virtual environment spatial sensors

Bernard D. Adelstein, Eric R. Johnston, Stephen R. Ellis

December 1992 Proceedings of the 5th annual ACM symposium on User interface software and technology

Publisher: ACM Press

Full text available: pdf(959.63 KB)

Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index</u> <u>terms</u>

This paper describes a testbed and method for characterizing the dynamic response of the type of spatial displacement transducers commonly used in virtual environment (VE) applications. The testbed consists of a motorized rotary swing arm that imparts known displacement inputs to the VE sensor. The experimental method involves a series of tests in which the sensor is displaced back and forth at a number of controlled frequencies that span the bandwidth of volitional human movement. During t ...

**Keywords**: input devices, sensor lag, spatial sensors, system calibration, virtual environments

Reasoning about code mobility with mobile UNITY



Gian Pietro Picco, Gruia-Catalin Roman, Peter J. McCann

July 2001 ACM Transactions on Software Engineering and Methodology (TOSEM), Volume 10 Issue 3



Publisher: ACM Press

Full text available: pdf(419.80 KB)

Additional Information: full citation, abstract, references, citings, index terms

Advancements in network technology have led to the emergence of new computing paradigms that challenge established programming practices by employing weak forms of consistency and dynamic forms of binding. Code mobility, for instance, allows for invocation-time binding between a code fragment and the location where it executes. Similarly, mobile computing allows hosts (and the software they execute) to alter their physical location. Despite apparent similarities, the two paradigms are disti ...

Keywords: UNITY, code mobility, mobile agent

8 ITICSE 2001 working group reports: Resources for instructors of capstone courses in





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Tony Clear, Michael Goldweber, Frank H. Young, Paul M. Leidig, Kirk Scott December 2001 ACM SIGCSE Bulletin, Volume 33 Issue 4

**Publisher: ACM Press** 

Additional Information: full citation, abstract, references, citings Full text available: pdf(2.17 MB)

Most computing programs now have some form of integrative or capstone course in which students undertake a significant project under supervision. There are many different models for such courses and conducting these courses is a complex task. This report is intended to assist instructors of capstone courses, particularly those new to the model of teaching and learning inherent in the capstone course. This paper discusses important issues that must be addressed when conducting capstone courses. Th ...

9 ITICSE 2001 working group reports: Resources for instructors of capstone courses in





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Tony Clear, Michael Goldweber, Frank H. Young, Paul M. Leidig, Kirk Scott December 2001 Working group reports from ITiCSE on Innovation and technology in computer science education

Publisher: ACM Press

Additional Information: full citation, abstract, references, index terms Full text available: pdf(2.17 MB)

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10 Visualizing geospatial data



Theresa Marie Rhyne, Alan MacEachren, Theresa-Marie Rhyne

August 2004 Proceedings of the conference on SIGGRAPH 2004 course notes SIGGRAPH '04

Publisher: ACM Press

Full text available: 🔂 pdf(14.01 MB) Additional Information: full citation, abstract

This course reviews concepts and highlights new directions in GeoVisualization. We review four levels of integrating geospatial data and geographic information systems (GIS) with scientific and information visualization (VIS) methods. These include: • Rudimentary: minimal data sharing between the GIS and Vis systems. Operational: consistency of geospatial data. Functional: transparent communication between the GIS and Vis

Results (page 1): +determine +capability +record +write +download +criteria +predetermined "re... Page 4 of 4

systems. Merged: one comprehensive toolkit environmentW ...

# 11 A multi-purpose toll collection plaza model

Andrew J. Junga

December 1990 Proceedings of the 22nd conference on Winter simulation

Publisher: IEEE Press

Full text available: pdf(561.92 KB) Additional Information: full citation, references, citings, index terms

# 12 Signalling analysis in integrated 4G networks

Hakima Chaouchi, Ivan Armuelles, Ivan Ganchev, Máirtín O'Droma, Nino Kubinidze January 2006 International Journal of Network Management, Volume 16 Issue 1

Publisher: John Wiley & Sons, Inc.

Full text available: pdf(517.12 KB) Additional Information: full citation, abstract, references, index terms

Scarce radio resources and the ambition to increase the number of mobile customers with a quarantee of service are pushing mobile communication systems from homogeneous non-service convergent 2G and convergent-service 2.5G and 3G wireless systems to heterogeneous integrated and convergent service 4G networks. This evolution has had several consequences from network design, control and service management points of view. In the emerging integrated 4G networks one of the issues is the signalling of ...

# 13 Limitations of the Kerberos authentication system



S. M. Bellovin, M. Merritt

October 1990 ACM SIGCOMM Computer Communication Review, Volume 20 Issue 5

Publisher: ACM Press

Full text available: pdf(1.12 MB) Additional Information: full citation, abstract, citings, index terms

The Kerberos authentication system, a part of MIT's Project Athena, has been adopted by other organizations. Despite Kerberos's many strengths, it has a number of limitations and some weaknesses. Some are due to specifics of the MIT environment; others represent deficiencies in the protocol design. We discuss a number of such problems, and present solutions to some of them. We also demonstrate how special-purpose cryptographic hardware may be needed in some cases.

#### Results 1 - 13 of 13

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Relevance scale

1 GPGPU: general purpose computation on graphics hardware

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David Luebke, Mark Harris, Jens Krüger, Tim Purcell, Naga Govindaraju, Ian Buck, Cliff Woolley, Aaron Lefohn

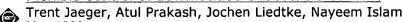
August 2004 Proceedings of the conference on SIGGRAPH 2004 course notes SIGGRAPH '04

**Publisher: ACM Press** 

Full text available: pdf(63.03 MB) Additional Information: full citation, abstract

The graphics processor (GPU) on today's commodity video cards has evolved into an extremely powerful and flexible processor. The latest graphics architectures provide tremendous memory bandwidth and computational horsepower, with fully programmable vertex and pixel processing units that support vector operations up to full IEEE floating point precision. High level languages have emerged for graphics hardware, making this computational power accessible. Architecturally, GPUs are highly parallel s ...

2 Flexible control of downloaded executable content



May 1999 ACM Transactions on Information and System Security (TISSEC), Volume 2 Issue 2

**Publisher: ACM Press** 

Full text available: pdf(297.79 KB)

Additional Information: full citation, abstract, references, citings, index terms, review

We present a security architecture that enables system and application a ccess control requirements to be enforced on applications composed from downloaded executable content. Downloaded executable content consists of messages downloaded from remote hosts that contain executables that run, upon receipt, on the downloading principal's machine. Unless restricted, this content can perform malicious actions, including accessing its downloading principal's private data and sending messages on th ...

**Keywords**: access control models, authentication, autorization machanisms, collaborative systems, role-based access control

3 Human-computer interface development: concepts and systems for its management



H. Rex Hartson, Deborah Hix

March 1989 ACM Computing Surveys (CSUR), Volume 21 Issue 1

Publisher: ACM Press

Full text available: pdf(7.97 MB)

Additional Information: full citation, abstract, references, citings, index terms, review

Human-computer interface management, from a computer science viewpoint, focuses on the process of developing quality human-computer interfaces, including their representation, design, implementation, execution, evaluation, and maintenance. This survey presents important concepts of interface management: dialogue independence, structural modeling, representation, interactive tools, rapid prototyping, development methodologies, and control structures. Dialogue independence is th ...

4 The white dwarf: a high-performance application-specific processor



Publisher: IEEE Computer Society Press, ACM Press

Full text available: pdf(1.40 MB)

Additional Information: full citation, abstract, references, citings, index

This paper presents the design and implementation of a high-performance specialpurpose processor, called The White Dwarf, for accelerating finite element analysis algorithms. The White Dwarf CPU contains two Am29325 32-bit floating-point processors and one Am29332 32-bit ALU, and employs a wide-instruction word architecture in which the application algorithm is directly implemented in microcode. The entire system is VMEbus compatible and interfaces with a SUN 31160 host. The syste ...

<u>Projectors:</u> advanced graphics and vision techniques

Ramesh Raskar

August 2004 Proceedings of the conference on SIGGRAPH 2004 course notes SIGGRAPH '04

Publisher: ACM Press

Full text available: pdf(6.53 MB)

Additional Information: full citation

Higher-order distributed objects

Henry Cejtin, Suresh Jagannathan, Richard Kelsey

September 1995 ACM Transactions on Programming Languages and Systems (TOPLAS), Volume 17 Issue 5

**Publisher: ACM Press** 

Full text available: pdf(2.33 MB)

Additional Information: full citation, abstract, references, citings, index

terms, review

We describe a distributed implementation of Scheme that permits efficient transmission of higher-order objects such as closures and continuations. The integration of distributed communication facilities within a higher-order programming language engenders a number of new abstractions and paradigms for distributed computing. Among these are user-specified load-balancing and migration policies for threads, incrementally linked distributed computations, and parameterized client-server applicat ...

Keywords: concurrency, continuations, higher-order languages, message-passing

7 ITICSE 2001 working group reports: Resources for instructors of capstone courses in

computing Tony Clear, Michael Goldweber, Frank H. Young, Paul M. Leidig, Kirk Scott December 2001 ACM SIGCSE Bulletin, Volume 33 Issue 4

Publisher: ACM Press

Full text available: pdf(2.17 MB) Additional Information: full citation, abstract, references, citings

Most computing programs now have some form of integrative or capstone course in which students undertake a significant project under supervision. There are many different models for such courses and conducting these courses is a complex task. This report is intended to assist instructors of capstone courses, particularly those new to the model of teaching and learning inherent in the capstone course. This paper discusses important issues that must be addressed when conducting capstone courses. Th ...

8 ITICSE 2001 working group reports: Resources for instructors of capstone courses in



computing

Tony Clear, Michael Goldweber, Frank H. Young, Paul M. Leidig, Kirk Scott

December 2001 Working group reports from ITiCSE on Innovation and technology in

computer science education

Publisher: ACM Press

Full text available: pdf(2.17 MB)

Additional Information: full citation, abstract, references, index terms

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9 Reasoning about code mobility with mobile UNITY



Gian Pietro Picco, Gruia-Catalin Roman, Peter J. McCann

July 2001 ACM Transactions on Software Engineering and Methodology (TOSEM),

Volume 10 Issue 3

Publisher: ACM Press

Full text available: pdf(419.80 KB)

Additional Information: full citation, abstract, references, citings, index terms

Advancements in network technology have led to the emergence of new computing paradigms that challenge established programming practices by employing weak forms of consistency and dynamic forms of binding. Code mobility, for instance, allows for invocation-time binding between a code fragment and the location where it executes. Similarly, mobile computing allows hosts (and the software they execute) to alter their physical location. Despite apparent similarities, the two paradigms are disti ...

Keywords: UNITY, code mobility, mobile agent

10 Constraints for the web

Alan Borning, Richard Lin, Kim Marriott

November 1997 Proceedings of the fifth ACM international conference on Multimedia

**Publisher: ACM Press** 

Full text available: pdf(1.65 MB) Additional Information: full citation, references, citings, index terms

11 Visualizing geospatial data

Theresa Marie Rhyne, Alan MacEachren, Theresa-Marie Rhyne
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12 A multi-purpose toll collection plaza mod	2	A multi-pu	rpose toll	collection	plaza	mode
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Andrew J. Junga

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Publisher: IEEE Press

Full text available: pdf(561.92 KB) Additional Information: full citation, references, citings, index terms

13 A testbed for characterizing dynamic response of virtual environment spatial sensors

Bernard D. Adelstein, Eric R. Johnston, Stephen R. Ellis
December 1992 Proceedings of the 5th annual ACM symposium on User interface
software and technology

Publisher: ACM Press

Full text available: pdf(959.63 KB)

Additional Information: full citation, abstract, references, citings, index terms

This paper describes a testbed and method for characterizing the dynamic response of the type of spatial displacement transducers commonly used in virtual environment (VE) applications. The testbed consists of a motorized rotary swing arm that imparts known displacement inputs to the VE sensor. The experimental method involves a series of tests in which the sensor is displaced back and forth at a number of controlled frequencies that span the bandwidth of volitional human movement. During t ...

**Keywords**: input devices, sensor lag, spatial sensors, system calibration, virtual environments

14 Disk scheduling in a multimedia I/O system

A. L. N. Reddy, Jim Wyllie, K. B. R. Wijayaratne

February 2005 ACM Transactions on Multimedia Computing, Communications, and Applications (TOMCCAP), Volume 1 Issue 1

Publisher: ACM Press

Full text available: pdf(271.67 KB) Additional Information: full citation, abstract, references, index terms

This article provides a retrospective of our original paper by the same title in the Proceedings of the First ACM Conference on Multimedia, published in 1993. This article examines the problem of disk scheduling in a multimedia I/O system. In a multimedia server, the disk requests may have constant data rate requirements and need guaranteed service. We propose a new scheduling algorithm, SCAN-EDF, that combines the features of SCAN type of seek optimizing algorithm with an Earliest Deadline Firs ...

**Keywords**: I/O systems, disk scheduling, multimedia applications, performance evaluation, real-time

Signalling analysis in integrated 4G networks
 Hakima Chaouchi, Ivan Armuelles, Ivan Ganchev, Máirtín O'Droma, Nino Kubinidze
 January 2006 International Journal of Network Management, Volume 16 Issue 1

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16 DRM, trusted computing and operating system architecture

Jason F. Reid, William J. Caelli

January 2005 Proceedings of the 2005 Australasian workshop on Grid computing and e-research - Volume 44 ACSW Frontiers '05

Publisher: Australian Computer Society, Inc.

Full text available: pdf(191.31 KB) Additional Information: full citation, abstract, references, index terms

Robust technological enforcement of DRM licenses assumes that the prevention of direct access to the raw bit representation of decrypted digital content and the license enforcement mechanisms themselves is possible. This is difficult to achieve on an open computing platform such as a PC. Recent trusted computing initiatives namely, the Trusted Computing Group (TCG) specification, and Microsoft's Next Generation Secure Computing Base (NGSCB) aim in part to address this problem. The protection arc ...

17 Data exchange in interorganizational relationships: review through multiple



Wafa Elgarah, Natalia Falaleeva, Carol C. Saunders, Virginia Ilie, J. T. Shim, James. F. Courtney

February 2005 ACM SIGMIS Database, Volume 36 Issue 1

Publisher: ACM Press

Full text available: pdf(400.76 KB) Additional Information: full citation, abstract, references, index terms

This paper explores the theoretical underpinning of data exchange research, specifically Electronic Data Interchange (EDI), over the period from 1993 to 2002. It identifies the underlying research paradigms applied to examination of data exchange, and determines conceptual and theoretical gaps in previous research on data exchange in interorganizational relationships (IORs). Sixty-eight articles are analyzed. Results suggest a predominant concern with the outcomes realized with EDI adoption and ...

**Keywords**: EDI, data exchange, interorganizational relationships, research paradigms, review

18 Limitations of the Kerberos authentication system

S. M. Bellovin, M. Merritt

October 1990 ACM SIGCOMM Computer Communication Review, Volume 20 Issue 5

Publisher: ACM Press

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19 Source-Navigator Version 4.2

Daniel Lazenby January 2000 **Linux Journal** 

Publisher: Specialized Systems Consultants, Inc.

Full text available: html(17.02 KB) Additional Information: full citation, index terms

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